

AMENDMENTS TO THE CLAIMS

This listing of Claims shall replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for performing smooth search transitions in a digital versatile disc (DVD) system, the method comprising:

determining a first frame rate and a second frame rate for which a frame rate transition is to be made;

~~(a)~~ calculating an instantaneous frame rate to produce a calculated instantaneous frame rate, wherein said calculated instantaneous frame rate is between said first frame rate and said second frame rate;

~~(b)~~ adjusting a timestamp of a frame based on the said calculated instantaneous frame rate to produce an adjusted timestamp; and

~~(c)~~ displaying the frame according to the adjusted timestamp.

2. (Currently Amended) The method of Claim 1 wherein the calculating further comprises determining a change in rate between a ~~current~~ said first frame rate and a ~~new~~ said second frame rate.

3. (Currently Amended) The method of Claim 2 1 further comprising determining a transition interval for ~~the change in rate~~ said frame rate transition.

4. (Previously Presented) The method of Claim 3 wherein the transition interval comprises an interval sufficient to maintain audio and video synchronization.

5. (Currently Amended) A digital versatile disc (DVD) player system with smooth search transition capabilities, the system comprising:
- a display device for displaying frames; and
 - a decoding engine for determining a first frame rate and a second frame rate for which a frame rate transition is to be made, for calculating an instantaneous frame rate to produce a calculated instantaneous frame rate, for adjusting a timestamp of a frame based on the said calculated instantaneous frame rate to produce an adjusted timestamp, and for providing the frame to the display device according to the adjusted timestamp; and
 - wherein said calculated instantaneous frame rate is between said first frame rate and said second frame rate.
6. (Currently Amended) The DVD player system of Claim 5 wherein the decoding engine further determines a change in rate between a ~~current~~ said first frame rate and a ~~new~~ said second frame rate.
7. (Currently Amended) The DVD ~~player~~ system of Claim 6 5 wherein the decoding engine further determines a transition interval for ~~the change in rate~~ said frame rate transition.
8. (Currently Amended) The DVD ~~player~~ system of Claim 7 wherein the transition interval comprises an interval sufficient to maintain audio and video synchronization.
9. (Currently Amended) The DVD ~~player~~ system of Claim 5 ~~further comprising a DVD player of a personal~~ , wherein at least one of said display device and said decoding engine comprise computer system components.

10. (Currently Amended) A computer readable medium containing program instructions for performing search transitions in a digital versatile disc (DVD) system, the method comprising:

determining a first frame rate and a second frame rate for which a frame rate transition is to be made;

~~(a)~~ calculating an instantaneous frame rate to produce a calculated instantaneous frame rate, wherein said calculated instantaneous frame rate is between said first frame rate and said second frame rate;

~~(b)~~ adjusting a timestamp of a frame based on the said calculated instantaneous frame rate to produce an adjusted timestamp; and

~~(c)~~ displaying the frame according to the adjusted timestamp.

11. (Currently Amended) The computer readable medium of Claim 10 wherein the calculating further comprises determining a change in rate between ~~a current~~ said first frame rate and ~~a new~~ said second frame rate.

12. (Currently Amended) The computer readable medium of Claim 11, wherein the method further comprises determining a transition interval for ~~the change in rate~~ said frame rate transition.

13. (Previously Presented) The computer readable medium of Claim 12 wherein the transition interval further comprises an interval sufficient to maintain audio and video synchronization.